

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

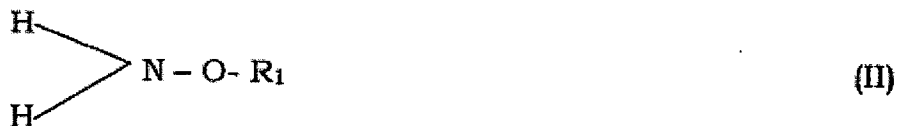
**LISTING OF CLAIMS:**

1. (currently amended) A Hhydrocarbon hydroconversion catalyst, ~~consisting~~  
~~of comprising~~ a medium with a base of at least one refractory oxide, at least one metal of group  
VIII and at least one metal of group VIB on the Period Table of the Elements, ~~characterized in~~  
~~that it has~~ and further comprising at least one organic compound with at least one oxime group of  
the formula:



where  $\text{R}_1$  is chosen from among a hydrogen atom, ~~the~~ alkyl, allyl, aryl, alkenyl or cycloaliphatic  
groups, and ~~the combinations thereof~~, and ~~these~~ one or more of said groups ~~can~~ could potentially  
be substituted by at least one electron donor group.

2. (currently amended) The Ccatalyst described in claim 1, ~~characterized in that~~ wherein  
the organic compound is the result of the reaction of an amine of formula (II) below



in which R<sub>1</sub> is chosen from among ~~the~~ a hydrogen atom, ~~the~~ alkyl, allyl, aryl, alkenyl or cycloaliphatic groups, and ~~the~~ combinations thereof, and ~~these~~ one or more of said groups can be substituted by an electron donor group, ~~s,~~ with a carbonyl compound of formula (III) below



where R<sub>3</sub> and R<sub>4</sub>, which are either identical to or different from one another, are chosen from among hydrogen, for only one of them, linear, ramified or cyclic ~~hydrocarbon~~ alkyl, aryl, allyl or alkenyl groups, ~~of the alkyl, aryl, allyl or alkenyl type,~~ and the combinations thereof, which ~~themselves could potentially~~ can be substituted by electron donor groups.

3. (currently amended) The Ccatalyst described in claim 2, ~~characterized in that wherein~~ the amine of formula (II) is hydroxylamine.

4. (currently amended) The Ccatalyst described in claim 2, ~~characterized in that wherein~~ the carbonyl compound of formula (III) is chosen from among ~~the~~ carbonyl compounds that are naturally present in a hydrocarbon charge that is the result of the distillation of crude oil, or ketones and aldehydes.

5. (currently amended) The Ccatalyst described in ~~any of claims 1 through 4,~~ ~~characterized in that wherein~~ said organic compound has a principal carbonaceous chain of 1 to 40 carbon atoms that is linear, ramified or partially or completely cyclic, that ~~could potentially~~ can be interrupted by heteroatoms chosen from among sulfur, nitrogen or oxygen, and the carbon atoms ~~could~~ can be substituted by a hydrogen atom, alkyl or aryl groups, at least one oxime group, ~~and potentially other oxime groups, and/or~~ at least one hydroxyl, sulfide ~~and/or~~ polysulfide

group, a thiol, thioacid, thioether ~~and/or~~ thioester group, sulfone ~~and/or~~ sulfoxide groups, amine, amide ~~and/or~~ imine groups, carboxyl, ether ~~and/or~~ ester groups, ketone ~~and/or~~ aldehyde groups, nitrate groups, phosphines ~~and/or~~ any other group with a free electron pairs.

6. (currently amended) The Ccatalyst described in ~~any of claims 1 through 5,~~  
~~characterized in that~~wherein the organic compound includes a single oxime group.

7. (currently amended) The Ccatalyst described in claim 6, ~~characterized in that~~ wherein  
the organic compound is chosen from among ~~the~~ alkyloximes, alkenyloximes, allyloximes,  
aryloximes and ~~the~~ combinations thereof, ~~ale~~kanoneoximes, cycloalkyloximes, ~~ale~~kanaloximes  
and benzaldehyde oximes, which may or may not be substituted by alkyl, aryl, arylalkyl and  
alkylaryl groups.

8. (currently amended) The Ccatalyst described in claim 7, ~~characterized in that~~wherein  
the organic compound is chosen from the group consisting of 2-octanone oxime, 3-heptanone  
oxime, tricosanone oxime, heptanone oxime, phenyldodecanone oxime, 1,3-diphenylacetone  
oxime, benzophenone oxime, 2-phenylcyclohexanone oxime, fluorenone oxime,  
dimethylbenzaldehyde oxime, benzaldoxime, acetophenone oxime, methylphenanthryloxime, 2  
methyl-benzaldehyde oxime, cyclooctanone oxime, 2-phenylcyclohexanone oxime, o-  
ethylhexanone oxime, isobutyraldehyde oxime and acetone oxime.

9. (currently amended) The Ccatalyst described in ~~any of claims 1 to 5,~~ ~~characterized in~~  
~~that~~wherein the organic compound includes one oxime group and at least one second group with  
a free electron pairs.

10. (currently amended) The Ccatalyst described in claim 9, ~~characterized in that~~wherein  
said organic compound has at least two oxime groups.

11. (currently amended) ~~The~~ Ccatalyst described in claim 10, ~~characterized in that~~  
~~wherein~~ said organic compound is chosen from among ~~the~~-dioximes and polyoximes comprising  
~~the one or more~~ alkyl, aryl, alkylaryl and arylalkyl groups.

12. (currently amended) ~~The~~ Ccatalyst described in claim 11, ~~characterized in~~  
~~that~~~~wherein~~ said organic compound is chosen from among glyoxime, monoalkylglyoximes,  
dialkylloximes and polyoximes with carbonaceous chains including 1 to 10 carbon atoms that  
tolerate hydrogen and ~~the~~-alkyl, aryl, alkylaryl and arylalkyl groups.

13. (currently amended) ~~The~~ Ccatalyst described in claim 12, ~~characterized in that~~  
~~wherein~~ said compound is dimethylglyoxime.

14. (currently amended) ~~The~~ Ccatalyst described in claim 9, ~~characterized in that~~~~wherein~~  
the second group with a free electron pair is chosen from among the hydroxyl, sulfide and  
polysulfide groups, ~~the~~-thiol, thioacid, thioether and thioester groups, ~~the~~-sulfone and sulfoxide  
groups, ~~the~~-amine, amide and imine groups, ~~the~~-carboxyl, carbonyl, ether and ester groups, ~~the~~  
ketone and aldehyde groups, ~~the~~ nitrate groups and phosphines.

15. (currently amended) ~~The~~ Ccatalyst described in claim 14, ~~characterized in~~  
~~that~~~~wherein~~ the organic compound is chosen from among mercaptoalkane oximes,  
alekoxybenzaldehyde oximes, alkoxyarylbenzaldehyde oximes, nitrobenzaldehyde oximes and  
alekoxybenzaldehyde oximes, hydroxybenzaldehyde oximes, alekoxybenzophenone oximes,  
substituted carboxaldehyde oximes, nitroarylalekanone oximes, aminobenzaldehyde oximes,  
benzamide oximes, substituted acetyl oximes, acetyl-furan, acetyl-thiophene and acetyl-pyridine  
oximes, hydroxyalekanal oximes, amidooximes, acetophenone oximes, oxime hydrazones or  
polyalekanol oximes, ~~and these groups could potentially~~any of which can be substituted by alkyl,

aryl, arylalkyl, alkylaryl, pyridinyl, thiophenyl and furanyl groups, sulfides, alkoxyls, amines, cyanides, nitrates and hydroxyls.

16. (currently amended) ~~The Catalyst~~ described in claim 15, ~~characterized in that wherein the organic compound is chosen from among~~ d-galactose oxime, benzamide oxime, benzyl oxime hydrazone, benzoichydrazide oxime, ethyl-2-oxobutyrate-2-oxime, isatine-3-oxime, ethyl(hydroxyimino)ciano-acetate, di-2-pyridylketone oxime, benzamide oxime, hydroxypentanal oxime, 4-pyridylamidooxime, nitrobenzaldehyde oxime, methoxybenzophenone oxime, hydroxybenzaldehyde oxime, dimethylaminobenzaldehyde oxime, 2-acetylpyridine oxime, 4-hexadecyloxybenzaldehyde oxime, methylthioacetaloxime, dimethoxy-nitrobenzaldehyde oxime, methoxyacetophenone oxime, methylbenzamide oxime, thiophenecarboxaldehyde oxime, acetyl-thiophene oxime, aminobenzophenone oxime, acetyl(methyl)thiophene oxime, 2-(4-methoxyphenyl)glyoxal-1 oxime, 1-mercapto-propane-2-oxime, aminophenylethane oxime, (octyloxyphenyl)phenyl-methanone, acetylfurane oxime, acetophenone oxime, 4-methoxy-3-nitro-benzaldehyde oxime, ethoxybenzaldehyde oxime, methoxybenzaldehyde oxime, 2-(4-methoxyphenyl)glyoxal 1-oxime, 1-mercapto-propan-2-one oxime, 1-(3-nitrophenyl) ethanone oxime, phenanthrene quinone-9-oxime, o-(4-nitrophenyl)acetone oxime, and isatine-3-oxime.

17. (currently amended) ~~The Catalyst~~ described in ~~any of claims 1 through 16,~~ ~~characterized in that it includes~~ comprising at least 0.001 mole of said organic compound per mole of metal from groups VIB and VIII.

18. (currently amended) ~~The Catalyst~~ described in claim 17, ~~characterized in that it includes~~ comprising from 0.001 to 10 moles of said organic compound.

19. (currently amended) A Process for preparing the catalyst described in ~~any of claims 1 through 18, comprising contacting~~ characterized in that said organic compound, ~~diluted in a solvent, preferably in a hydrocarbon mixture, is put in contact with the~~ a catalyst in a medium of a base of at least one refractory oxide, at least one metal of group VIII and at least one metal of group VIB with the organic compound of claim 1, as a gas, diluted in a solvent, and/or in a hydrocarbon charge, to form the catalyst of claim 1.

20. (currently amended) The Process described in claim 19, ~~characterized in that wherein~~ said organic compound is a synthesized compound, obtained by reacting a carbonyl compound of formula (III), which may or may not be contained in the hydrocarbons charge being processed, with an amine of formula (II), by maintaining the mixture at a temperature between room temperature and 100° C, under pressure that is at least equal to atmospheric pressure.

21. (currently amended) The Process described in ~~either of claims 19 or 20, characterized in that wherein~~ said organic compound is prepared *in situ* in ~~the~~ a hydroconversion reactor, in the hydrocarbons charge being processed.

22. (currently amended) The Process described in ~~either of claims 19 or 20, characterized in that wherein~~ the organic compound is prepared *ex situ*, and then deposited or impregnated on the catalyst.

23. (currently amended) ~~Use of the catalyst described in claims 1 through 18, in a~~ A hydrocarbon hydrotreatment and/or hydrocracking process, after *in situ* or *ex situ* sulfidation of ~~said~~ a catalyst of claim 1 without said organic compound, using at least one sulfide compound chosen from among hydrogen sulfide, sulfur, CS<sub>2</sub>, mercaptans, sulfides and/or polysulfides or

hydrocarbon fractions with a boiling point of less than 400° C; containing sulfur compounds, or other compounds with a sulfidizing effect, comprising

contacting said catalyst with and this the organic compound of claim 1 is introduced in the form of a gas or in diluted form in a solvent, and

passing a hydrocarbon charge to be hydrotreated and/or hydrocracked over said catalyst,

wherein the organic compound can be provided as an additive of the lead hydrocarbon charge being converted, in addition to or in lieu of contacting the catalyst with compound in the form of a gas or in diluted form in a solvent.